

## Claims

1. Radically crosslinkable liquid composition for producing a polyacrylamide-based hydrogel layer,  
5 characterized in that  
the composition comprises at least one comonomer with reactive linker groups and at least one optional softener in addition to the monomer precursor of the polyacrylamide, the crosslinking agent and the radical initiator.
- 10 2. Composition according to Claim 1  
characterized in that  
the monomer precursor of the polyacrylamide is based on acrylamide methylenbis(meth)acrylamide and/or dimethacrylic acid ester.
- 15 3. Composition according to Claim 1 and/or 2,  
characterized in that  
the comonomer with reactive linker groups is selected from the group comprising maleic acid anhydride and/or glycidyl (meth)acrylate.
4. Composition according to one of the Claims 1 to 3  
characterized in that  
the softener is selected from the group comprising monoethylene glycol, diethylene glycol and/or triethylene glycol.
- 25 5. Composition according to one of the Claims 1 to 4,  
characterized in that  
it is available in a polar solvent which can mixed with water
- 30 6. Composition according to Claim 5,  
characterized in that  
the solvent is dimethyl formamide

7. Use of a composition according to one of the Claims 1 to 6 to produce an immobilization layer for biomolecules on a transducer surface.